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III. OBSERVATIONES COELESTES
BRITANNICÆ, Grenovici in Observato-
rio Regio habita, anno MDCCXIII.

Observationes SATURNI.

Temp. per Horolog.	Tempora correcta.	Die Solis, Januarii 25.	Distantiæ a Vertice
h. ' "	h. ' "		° ' "
8 30 15	8 28 5	Geminorum π transiit	28 13 20
8 41 7	8 38 57	Pes Castoris η transiit	28 54 50
8 49 8	8 46 58	Calx ejusdem five μ transiit	28 50 40
12 10 49	12 8 39	Leonis \downarrow Bayero transiit	36 9 30
12 25 24	23 14	Leonis ν transiit	37 40 30
12 34 21	32 11	Saturni centrum transiit	36 51 45
12 35 44	12 33 34	Cor Leonis transiit	38 7 00
		Ascensio rect. h 147 55 10	
		Dist. a Polo Bor. 75 23 55	
		Longitudo Ω 25 8 15	
		Latitudo Bor. 1 31 27	

Temp. per Horolog.	Tempora correcta	Die Jovis Februarii 5. 1713.	Distantiæ a Vertice.
h. ' "	h. ' "		
11 20 52	11 14 10	Leonis ξ <i>Bayero</i> transiit --	38 55 20
30 9	23 27	Leonis σ transiit	40 17 30
35 18	28 36	Leonis 16 ^{ta} <i>Cat. Brit.</i> transiit	38 21 20
47 8	40 26	Leonis ν transiit	37 40 30
52 42	46 00	Saturni centrum transiit	36 32 50
11 57 25	50 43	Cor Leonis transiit	38 7 5
12 0 35	53 53	Leonis 31 ^{ma} transiit	36 42 50
5 40	11 58 58	Leonis 34 ^{ta} transiit	36 19 30
12 10 50	12 4 8	Leonis 38 ^{va} transiit	35 3 50
		Ascensio recta h 147 4 45	
		Distant a Polo 75 5 00	
		Longitudo Ω 24 14 8	
		Latitudo Bor. 1 32 16	

Die Veneris Februarii 6.			
8 22 53	8 14 43	Lucidus pes Pollucis, π γ tr.	34 52 00
11 29 22	11 21 12	Leonis \downarrow transiit	36 9 15
11 43 58	11 35 48	Leonis ν transiit	37 40 30
11 49 10	11 41 0	Saturni centrum transiit	36 31 00
		Ascensio recta h 146 59 0	
		Distantia a Polo 75 3 10	
		Longitudo Ω 24 8 17	
		Latitudo Bor. 1 32 8	

Die Mercurii Febr. 18.			
11 0 15	10 53 0	Saturni centrum transiit --	36 12 00
11 8 53	11 1 38	Cor Leonis transiit	38 7 5
11 17 7	11 9 52	Leonis 34 ^{ta} <i>Cat. Brit.</i> transiit	36 19 35
11 22 16	11 15 1	Ejusdem 38 ^{va} transiit	35 3 55
		Ascensio rect. h 146 5 00	
		Distantia a Polo 74 44 10	
		Longitudo Ω 23 12 47	
		Latitudo Bor. 1 32 41	

Temp. per Tempora Horolog. correcta.				Die Lunæ Martii 2. 1713.				Distantiæ a Vertice			
h.		"		h.		"		°		"	
10	6	30	9	52	3	Leonis \downarrow transiit	36	9	30		
	19	27	10	5	00	Saturni centrum transiit	35	55	20		
	31	21		16	54	Cor Leonis transiit	38	7	5		
	34	31		20	4	Leonis 3 ^{ma} transiit	36	42	50		
10	39	35	10	25	8	Leonis 3 ^{4ta} transiit.	36	19	40		
				Ascensio recta h 145 16 00							
				Distant. a Polo 74 27 30							
				Longitudo Ω 22 22 40							
				Latitudo Bor. 1 3 52							

Die Martis Aprilis 7.											
7		43		1		7		41		15	
		50		46				49		00	
		57		30				55		50	
8		6		39		8		4		53	
		16		7				14		21	
8		21		17		8		19		31	
				Leonis \downarrow transiit				36 9 25			
				Saturni centrum transiit				35 31 10			
				Leonis ν Bayero transiit				37 40 20			
				Leonis in collo n transiit				33 19 25			
				Ejusdam 3 ^{4ta} Cat. Br. transiit				36 19 30			
				Ejusdem 3 ^{8va} transiit				35 3 50			
				Ascensio recta h 143 57 45							
				Distantia a Polo 74 3 15							
				Longitudo Ω 21 3 32							
				Latitudo 1 21 20							

Die Mercurii Aprilis 8.											
7		47		43		7		46		00	
		54		34				52		51	
8		3		37		8		1		54	
		13		4				11		21	
8		18		14		8		16		31	
				Saturni centrum transiit				35 31 15			
				Leonis ν transiit				37 40 20			
				Leonis n transiit				33 19 20			
				Leonis 3 ^{4ta} transiit				36 19 35			
				Leonis 3 ^{8va} transiit				35 3 45			
				Ascensio recta h 143 57 30							
				Distantia a Polo 74 3 20							
				Longitudo Ω 21 3 20							
				Latitudo 1 31 10							
Saturno pene stationario											

Die

Temp. per Horolog.	Tempora correcta.	Die Jovis Novemb. 5. 1713.	Diff. a a Vertice
h. ' "	h. ' "		° ' "
18 22 00	18 15 37	Leonis π in genu seq. transiit	42 4 00
30 8	23 45	Cor Leonis transiit	38 7 5
54 35	48 12	Leonis in Axilla ρ transiit	40 42 0
19 11 5	19 4 42	Leonis in ventre ι transiit	39 25 15
19 26 23	19 20 00	Saturni centrum transiit	42 10 40
		Ascensio rect. \hbar 162 23 20	
		Distancia à Polo 80 43 00	
		Longitudo \times 10 13 40	
		Latitudo Bor. 1 39 37	

Observationes J O V I S.

Anno MDCCXIII.

Temp. per Horolog.	Tempora correcta.	Die Solis Augusti 9.	Diff. a a Vertice.
h ' "	h ' "		° ' "
12 40 4	12 37 27	Aquarii λ in effusione A. } quæ transiit	60 32 50
12 48 37	12 46 c	Jovis centrum transiit	60 48 35
12 52 36	12 49 59	Aquarii 73 ^{ta} Cat. Brit. } prima ad h transiit	60 46 20
13 4 21	13 1 44	Aquarii in aqua \times transiit	60 49 10
		Ascens. rect. \times 341 33 5	
		Dist. a Polo Bor. 99 21 40	
		Longitudo \times 9 26 00	
		Latitudo Aust. 1 25 8	

Temp. per Horolog.	Tempora correcta	Die Lunæ Augusti 10. 1713.	Distantiæ a Vertice.
h. ' "	h. ' "		° ' "
12 36 21	12 33 55	Aquarii λ transit	60 32 50
12 44 26	12 42 00	Jovis centrum transit	60 52 00
12 48 53	12 46 27	Aquarii 73 ^{ia} transit	
		Ascens. rect. \times 341 26 5	
		Distant. a Polo 99 25 5	
		Longitud. Jov. \times 9 18 17	
		Latitudo Aust. 1 25 40	
Die Lunæ Octobris 26.			
7 29 16	7 28 42	Aquarii in Clune σ transit	63 34 40
7 36 34	7 36 0	Jovis centrum transit	63 00 5
8 14 34	8 14 0	Aquarii 80 ^{ma} prima ad \downarrow tr	62 5 20
8 17 45	8 17 11	Aquarii 84 ^{ta} seq. ad \downarrow trans.	62 37 5
		Ascensio recta \times 335 41 30	
		Distantia a Polo 101 33 20	
		Longitudo Jovis \times 3 16 00	
		Latitudo Aust. 1 19 8	
Die Martis Octob. 27.			
7 25 40	7 23 34	Aquarii Clunis σ transit	63 34 35
7 33 6	7 31 00	Jovis centrum transit	62 59 15
8 11 00	8 8 54	Aquarii prima ad \downarrow transit	62 5 15
8 14 10	8 12 4	Sequens ad \downarrow transit	62 37 10
		Ascensio rect. \times 335 43 20	
		Distantia a Polo 101 32 30	
		Longitudo \times 3 17 58	
		Latitudo Aust. 1 19 00	
Die Jovis Octob. 29.			
7 18 29	7 15 19	Aquarii σ transit	63 34 40
26 10	7 23 00	Jovis centrum transit	62 57 20
8 3 47	8 0 37	Prima ad \downarrow transit	62 5 20
6 55	8 3 45	Sequens ad \downarrow transit	62 37 10
2	A a a	Ascen.	

Die Jovis Octob. 29.
 Ascensio recta \approx 335 47 45
 Distantia a Polo 101 30 35
 Longitudo Jov. \times 3 22 41
 Latitudo Aust. 1 18 49

Observationes MARTIS.

Anno MDCCXIII.

Temp. per Horolog.	Tempora correcta.	Die Mercurii Feb. 18. 1713.	Distantiæ a Vertice
h. ' "	h. ' "		° ' "
12 28 38	12 21 20	Leonis in poplite γ transit	47 2 15
12 51 6	12 43 48	In ancone Alæ μ β transit	48 5 40
13 10 21	13 3 3	Virginis 10ma Cat. Brit. γ tr.	47 57 40
13 13 18	13 6 00	Martis centrum transit	47 2 5
13 21 8	13 13 50	In cervice Virginis c transit	46 33 30
		Asc. rect. Martis 179 29 20	
		Distantia à Polo 85 34 35	
		Longitudo μ 27 46 00	
		Latitudo Bor. 3 51 10	
Die Martis Martii 3.			
11 55 52	11 53 2	In vertice Virginis ν transf.	43 20 00
12 4 50	12 2 00	Martis centrum transit	45 14 20
10 54	8 4	In vultu Virginis π transit	43 15 25
20 8	17 18	Undecima Virginis s transit	44 3 30
12 30 25	27 35	Virginis 16. in Cervice c tr.	46 33 25
12 32 37	22 47	Virginis 17ma Cat Br. transf.	44 33 45
		Asc. rect. Martis 175 1 15	
		Dist. a Polo Bor. 83 46 45	
		Longitudo μ 22 57 33	
		Latitudo Bor. 3 43 37	

Temp. per Horolog.	Tempora correcta.	Die Martis Aprilis 7. 1713.	Distantie a Vertice
h. " "	h. " "		° ' "
9 4 47	9 3 10	Sub Ventre Leonis \propto transiit	42 35 25
9 17 37	9 16 00	<i>Martis</i> centrum transiit	42 42 50
9 38 10	9 36 33	Prima Virg. <i>Cat. Br.</i> ω transiit	41 44 50
9 45 00	9 43 23	Boreā in Vertice π ξ transiit	41 37 15
		Afc. rect. <i>Martis</i> 165 45 40	
		Distantia a Polo 81 15 10	
		Longit. <i>Martis</i> π 13 30 40	
		Latitudo Bor. 2 26 31	

Die Mercurii Aprilis 8.

9 1 44	9 0 29	Leonis \propto transiit	42 35 30
9 14 15	9 13 00	<i>Martis</i> centrum transiit	42 43 40
9 35 7	9 33 52	Virginis ω transiit	41 44 55
9 41 58	9 40 43	Virginis ξ transiit	41 37 15
		Afc. rect. <i>Martis</i> 165 41 00	
		Distantia a Polo 81 16 00	
		Longitud. <i>Martis</i> π 13 26 45	
		Latitudo Bor. 2 23 58	

Die Veneris Maii 1.

7 55 9	7 50 00	<i>Martis</i> centrum transiit	44 17 30
8 18 12	8 13 3	In Vertice Virginis ν transiit	43 20 00
8 33 14	8 28 5	In Vultu Virginis π transiit	43 15 30
		Afc. rect. <i>Martis</i> 166 59 40	
		Distantia a Polo 82 49 50	
		Longitudo π 15 15 00	
		Latitudo Bor. 1 27 40	

Temp. per Horolog.	Tempora correcta.	Die Saturni Maii 2. 1713.	Distantiæ a Vertice.
h ' "	h ' "		° ' "
7 52 45	7 47 00	<i>Martis</i> centrum transit	44 24 20
8 15 7	8 9 22	<i>Virginis</i> ν transit	43 20 5
8 30 8	8 24 23	<i>Virginis</i> π transit	43 15 25
		Afc. rect. <i>Martis</i> 167 10 00	
		Distantia a Polo 82 56 40	
		Longitudo π 15 27 5	
		Latitudo Bor. 1 25 20	

Observationes L U N Æ.

Anno MDCCXIII.

Die Solis Januarii 25.			
8 9 33	8 7 23	Telescopica α transit	28 26 20
8 15 5	8 12 55	<i>Tauri</i> 123 <i>ia Cat. Brit.</i> trans.	27 2 30
8 20 20	8 18 10	<i>Lunæ</i> limbus præced. } transit, centro a Vertice }	27 32 40
8 21 23	8 19 13	<i>Lunæ</i> centrum trans. lim- } bo remoto a Vertice }	27 47 40
8 22 52	8 20 42	<i>Lunæ</i> cuspis Bor. a Vertice	27 17 40
8 30 15	8 28 5	<i>Geminorum</i> π ρ π ρ π ρ transit	28 13 20
8 41 7	8 38 57	<i>Pes Castoris</i> η transit	28 54 50
8 49 8	8 46 58	<i>Calx ejusdem</i> μ transit	28 50 40
		Afc. rect. cent. γ 84 26 55	
		Dist. a Polo visa 66 4 40	
		Sed adhibet. Paral. 65 39 50	
		Longit. <i>Lunæ</i> π 24 56 30	
		Latitudo Bor. 0 57 00	

Temp. per Horolog.	Tempora correcta.	Die Lunæ Januarii 26. 1713.	Distantiæ a Vertice
h. ' "	h. ' "		° ' "
8 26 41	8 24 36	Propus transiit	28 13 30
8 37 31	8 35 26	Pes Castoris η transiit	28 54 50
8 45 31	8 43 26	Calx Castoris μ transiit	28 50 40
9 9 43	9 7 38	Lunæ limbus præcedens } transiit, centro a Vertice }	28 45 00
9 10 50	9 8 45	Lunæ centrum trans. lim- } bo remoto a Vertice }	29 0 5
9 12 30	9 16 25	Lunæ cuspis Bor. a Vertice	28 30 10
9 27 50	9 25 45	Π orum 46ta Cat. Br. trans.	28 26 10
9 42 44	9 40 39	Π orum in Inguine δ trans.	28 59 30
		Afc. rect. cent. ν 97 43 50	
		Dist. a Polo visa 67 17 5	
		Adhibitâ Parallaxi 66 51 15	
		Longit. Lunæ ∞ 7 6 18	
		Latitudo Aust. 0 8 48	

Observationes SATELLITUM JOVIS.

Die Veneris Octob. 30.

6 56 30	6 52 35	Quartus Satelles visus est emergens ab umbra, diametro Jovis distans a <i>tertio</i> ei proximo ad dextram, Tubo scilicet octo pedum.
7 4 00	7 00 00	Clare explenduit, & linea ducta a proximo illo per centrum Jovis emergentem reliquit ad Austrum, <i>situ scilicet inverso</i> .
7 36 31	7 32 30	Pegasi μ transiit per planum Arcus meridionalis.

Die Saturni Novemb. 7.

7 13 21	7 5 00	Secundus Satelles emergebat, vel potius emergere incipiebat. Tubo octo pedum
9 5 11	8 57 00	Piscium δ in Lino australi transiit. N.B.

N.B. *Stella illa Telescopica a quæ die Januarii 25° Lunam præcessit, Ascensionem rectam tunc habuit $81^{\circ} 28' \frac{1}{2}$, & distabat a Polo $66^{\circ} 58' 20''$, unde fit Longitudo ejus $\pi 22^{\circ} 9' \frac{1}{2}$ cum Latitudine Australi $0^{\circ} 13' \frac{1}{2}$. Hæc autem est ea ipsa stella ad quam applicabatur Joviter in Statione secunda, anno 1634 Februarii 6, eamque non nisi tribus sui corporis diametris ad Austrum reliquit, observante Gassendo: ut habetur inter Observata ejus pag 174. Et ad eandem Mars observatus est Septembris 6to anno 1644 mane, ut videre est in Prolegomenis Selenographiæ Hevelianæ pag. 65 & Fig. 1. Verum multum usui erit, ad accuratam Nodi Jovis determinationem, ejusque motus, si modo inter stellas fixas planum orbitæ Jovialis non hæreat immobile. Etenim post decursus 83 annorum, quibus Joviter satis accurate septem absolvit periodos, anno scilicet 1717. Januarii 10. mane, Planeta stellam illam corporaliter teget vel saltem stringet, spectaculo quidem raro neque hætenus quod sciam Astronomis in Jove concessio.*

Stella autem ipsa, etiamsi Telescopica vocetur, sudo cælo & absente Lunâ inermis oculi aciem non fugit; comitemque habet sequentem ad Austrum, & semidiametro Solis circiter distantem, apud quam conspicietur Joviter arctissime conjunctus, Die vicesimo Julii anni proximi 1716 mane.

IV. *An Account of an Experiment made by Dr. Brook Taylor assisted by Mr. Hawkesbee, in order to discover the Law of the Magnetical Attraction.*

BY Order of the Royal Society Mr. *Hawkesbee* and my self made an Experiment with the great Loadstone belonging to the Royal Society, in order to discover the Law of the Magnetical Attraction; and not long
 2 after